

CLASSIFICATION S-E-C-R-E-T

CENTRAL INTELLIGENCE AGENCY
INFORMATION REPORT

REPORT

CD NO.

25X1

COUNTRY East Germany

DATE DISTR. 10 May 1955

SUBJECT Power Plant at Magdeburg

NO. OF PAGES 1

PLACE
ACQUIREDNO. OF ENCLS.
(LISTED BELOW)

25X1

DATE OF
INFO.SUPPLEMENT TO
REPORT NO.THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE
OF THE UNITED STATES, WITHIN THE MEANING OF TITLE 18, SECTIONS 793
AND 794, OF THE U. S. CODE, AS AMENDED. ITS TRANSMISSION OR REVEL-
ATION OF ITS CONTENTS TO OR RECEIPT BY AN UNAUTHORIZED PERSON
IS PROHIBITED BY LAW THE REPRODUCTION OF THIS FORM IS PROHIBITED.

THIS IS UNEVALUATED INFORMATION

25X1

25X1

- 1.. Operational difficulties have arisen at the Magdeburg power plant in connection with the final stage of the new 25,000 KW machines. After the first 400 hours of operation at peak capacity, one of the 450 mm. length blades of the end-stage broke at the critical ~~trans~~-sectional point (in kritischen Querschnitt) of the axial ~~Tannen~~ Tannen. The rotor (Laeufer) was shipped back to the delivering firm, VEB Bergmann-Borsig, where great excitement was caused in the accounting office by this situation. All of the turbine blades were then checked by modern testing procedures. As a result, 60 of the blades had to be replaced. Also, the ~~rotor~~ (Welle) was scrapped ~~and~~ and it indicated a 3 mm. deviation from true. The bucket rings (Schaufelkranze) were built on to an available axle, which had been ~~designed~~ designed for Trattendorf, and the complete unit was reshipped to Magdeburg for rebuilding into the power plant.
2. The machine was once more run at peak capacity, but after another 400 hours of operation one of the blades, which had not been replaced, shattered. Once ~~more~~ the rotor (Laeufer) was dismantled and shipped to Bergmann-Borsig. In ~~order~~ to alleviate this situation, a complete rotor, again destined for Trattendorf, was built into ~~the~~ turbine. Since the blades on this rotor were only 360 mm. long (90 mm. shorter than the originals), some of the steam by-passed the blades and caused a considerable decrease in the capacity of the machine. Delivery deadline for this machine was 24 January 1955; however, the rotor destined for Trattendorf did not fit the Magdeburg turbine precisely and certain parts will have to be re-machined. Thus, it can be seen that supposedly standard parts are actually not interchangeable because of lack of precision in the production work.

25X1

CLASSIFICATION S-E-C-R-E-T

STATE	NAVY	NSRB	DISTRIBUTION	ORR EV	x
ARMY	AIR	FBI			

25X1

CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

REPORT

CD NO.

COUNTRY East Germany

DATE DISTR. 10 May 1955

SUBJECT Power Plant at Magdeburg

NO. OF PAGES 1

PLACE
ACQUIRED

NO. OF ENCLS.

(LISTED BELOW)

DATE OF INFO.

SUPPLEMENT TO
REPORT NO. 64-15

**SUPPLEMENT TO
REPORT NO. 1**

SECRET

25X1

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES, WITHIN THE MEANING OF TITLE 18, SECTIONS 793 AND 794, OF THE U. S. CODE AS AMENDED. ITS TRANSMISSION OR REVELATION OF ITS CONTENTS TO OR RECEIPT BY AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW. THE REPRODUCTION OF THIS FORM IS PROHIBITED.

THIS IS UNEVALUATED INFORMATION

1. Operational difficulties have arisen at the Magdeburg power plant in connection with the final stage of the new 25,000 KW machines. After the first 400 hours of operation at peak capacity, one of the 450 mm. length blades of the end-stage broke at the critical cross-sectional point (im kritischen Querschnitt) of the axial Tannenzapfenfuss. The rotor (Laeufer) was shipped back to the delivering firm, VEB Bergmann-Borsig, where great excitement was caused in the accounting office by this situation. All of the turbine blades were then checked by modern testing procedures. As a result, 60 of the blades had to be replaced. Also, the axle (Welle) was scrapped since it indicated a 3 mm. deviation from true. The bucket rings (Schaufelkranze) were built on to an available axle, which had been destined for Trattendorf, and the complete unit was reshipped to Magdeburg for rebuilding into the power plant.
2. The machine was once more run at peak capacity, but after another 400 hours of operation one of the blades, which had not been replaced, shattered. Once more the rotor (Laeufer) was dismantled and shipped to Bergmann-Borsig. In order to alleviate this situation, a complete rotor, again destined for Trattendorf, was built into the turbine. Since the blades on this rotor were only 360 mm. long (90 mm. shorter than the originals), some of the steam by-passed the blades and caused a considerable decrease in the capacity of the machine. Delivery deadline for this machine was 24 January 1955; however, the rotor destined for Trattendorf did not fit the Magdeburg turbine precisely and certain parts will have to be re-machined. Thus, it can be seen that supposedly standard parts are actually not interchangeable because of lack of precision in the production work.

25X1

CLASSIFICATION S-R-C-R-R-T

STATE	<input checked="" type="checkbox"/> NAVY	<input checked="" type="checkbox"/> NSRB	DISTRIBUTION					ORR EV	<input checked="" type="checkbox"/>
ARMY	<input checked="" type="checkbox"/> AIR	<input checked="" type="checkbox"/> FBI							

25X1